## ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

#### **BUREAU OF AIR**

## **DIVISION of AIR POLLUTION CONTROL**

#### PERMIT SECTION

# PROJECT SUMMARY for the DRAFT TITLE V - CLEAN AIR ACT PERMIT PROGRAM (CAAPP) PERMIT

Abbott Laboratories 100 Abbott Park Road Abbott Park, Illinois 60064-3500

Permit Engineer/Technical Contact: Jonathan Sperry, 217/782-2113

Community Relations/Comments Contact: Brad Frost, 217/782-7027

Springfield, Illinois

#### I. INTRODUCTION

This source has applied for a renewal of the Title V - Clean Air Act Permit Program (CAAPP) operating permit (I.D. 097809AAD, Permit #96010010) for its existing operation. The CAAPP is the program established in Illinois for operating permits for significant stationary sources as required by the federal Clean Air Act, as amended in 1990, and 40 CFR Part 70. Unlike state operating permits, the conditions in a CAAPP permit are enforceable by both the Illinois Environmental Protection Agency (Illinois EPA) and the USEPA. This document is for informational purposes only and does not shield the Permittee from enforcement actions or its responsibility to comply with applicable regulations. This document shall not constitute a defense to a violation of the Act or any rule or regulation.

A Title V permit contains conditions listing the applicable state and federal air pollution control regulations that apply to a source. The permit conditions also establish emission limits, appropriate compliance procedures, and specific operational flexibility. The appropriate compliance procedures may include monitoring, record keeping, and reporting to show compliance with these requirements. The Permittee must carry out these procedures on an on-going basis to demonstrate that the source is operating in accordance with the requirements of the permit.

Major changes from the previous version of this permit include:

- 1. Added equipment constructed from 2001 to 2004 and addressed in construction permits, including pharmaceutical manufacturing equipment, a small boiler, and 5 generators;
- 2. Added existing boilers from the K-Complex building, an adjacent facility determined to be a single source (for Title V purposes) with Abbott Laboratories;
- 3. Updated and simplified references to the federal standards for pharmaceutical production (40 CFR Part 63, Subpart GGG); and
- 4. Added emission control monitoring plans for units subject to the Compliance Assurance Monitoring regulation (40 CFR Part 64).

## II. SOURCE DESCRIPTION INFORMATION

## a. <u>Location and nature of business</u>

Abbott Laboratories (Abbott) is located at 100 Abbott Park Road in unincorporated Lake County. Abbott is a worldwide health care corporation with its headquarters located at this site, also known as Abbott Park. This permit addresses operations at the Abbott Park Facility and the K-Complex Facility. The K-Complex Facility is located at the corner of U. S. Highway 41 and Martin

Luther King Drive in North Chicago and is contiguous to the Abbott Park Facility.

The source conducts manufacturing and packaging of solid dosage form pharmaceuticals (tablets, capsules, and granules), preparation and filling of bulk solutions for diagnostic kit reagents, final packaging and distribution of diagnostic kits, and research and development activities from bench-scale through small pilot plant processes. In addition, manufacturing support services are provided, including boilers, chillers, emergency generators, and other support operations.

#### b. National Ambient Air Quality Standard status for this area

This permit is issued based on the source being located in an area that, as of the date of permit issuance, is designated nonattainment for the National Ambient Air Quality Standards for ozone (moderate nonattainment) and PM<sub>2.5</sub> and attainment or unclassifiable for all other criteria pollutants (CO, lead, NO<sub>2</sub>, PM<sub>10</sub>, SO<sub>2</sub>).

## c. <u>Major source status</u>

The proposed permit is based on:

- 1. The source requiring a CAAPP permit as a major source of CO,  $NO_x$ ,  $PM_{10}$ ,  $SO_2$ , VOM and HAP emissions.
- 2. The source requiring a CAAPP permit because the source is subject to a standard, limitation, or other requirement under Section 111 (NSPS) or Section 112 (HAPs) of the CAA for which USEPA requires a CAAPP permit, or because the source is in a source category designated by the USEPA (see Condition 5.2 of the proposed permit).

#### d. Significant emission units

			Emission
Emission Unit		Date	Control
	Description	Constructed	Equipment
G-0502	Day Mixing Co. Model No.	1981	Dust Collector
	5201 Masser (SPM Day		17 (U-1815)
	Masser)		
D-0964	Warm Air Dryer 1	1982	None
D-0965	Warm Air Dryer 2	1982	None
D-0966	Warm Air Dryer 3	1982	None
D-0967	Warm Air Dryer 4	1982	None
G-0716	Glen Model No. ER 64 340	1958	Dust Collector
	Masser (Glen Masser)		17 (U-1815)

			Emission
Emission Unit		Date	Control
Elilission Clift	Description	Constructed	Equipment
G-0336	Fitzpatrick Co. Series 1606	1965	Dust Collector
G-0330	Mill (SPM Milling)	1703	17 (U-1815) and
	Willi (Si Wi Willing)		Dust Filter AS17
G-0522	Sweco Co. Model No. U5485	1998	Dust Collector
0 0322	Mill (SPM Sweco)	1770	21 (LC932987)
G-0393	Collette Model No. 1200 Gral	1982	Dust Collector
3 0373	(Gral #1)	1702	14 (U-1811) and
	(3141 // 1)		Dust Filter AS14
G-0583	Collette Model No. 1200 Gral	1995	Dust Collector
	(Gral #2)	-770	14 (U-1811) and
	(- " )		Dust Filter AS14
LC936001	Collette Model No. 1200 Gral	1998	Dust Collector
	(Gral #3)		23 (U-1814)
D-0917	Aeromatic Model No. T-8	1982	Internal Filters
	2400 Fluid Bed Dryer (FBD		
	#1)		
D-0955	Aeromatic Model No. T-8	1982	Internal Filters
	2400 Fluid Bed Dryer		
	(FBD #2)		
LC933770	Aeromatic Model No. MP-8	1998	Internal Filters
	Fluid Bed Dryer (FBD #3)		
G-0324	Sweco Model No. LS48S Mill	1968	Dust Collector
	(HVM Sweco)		13 (U-1810) and
			Dust Filter AS13
LC929589	Model No. 54856886 Mill	1998	Dust Collector
	(HVM Sweco #2)		13 (U-1810) and
G 0202	G M 11N 55(0500	1000	Dust Filter AS13
G-0392	Sweco Model No. 5560588	1998	Dust Collector
C 0201	Mill (HVM Sweco #3)	1002	22 (U-1813)
G-0391	Patterson-Kelly Co. Model No.	1982	Dust Collector
	263993 Blender (Blender #1 150 cu ft)		12 (U-1809) and Dust Filter AS12
G-0349	Patterson-Kelly Co. Model No.	1972	Dust Collector
G-0349	263993 Blender (Blender #2	17/2	10 (U-1807) and
	150 cu ft)		Dust Filter AS10
G-0284	Patterson-Kelly Co. Blender	1963	Dust Collector
3 0201	(Blender #3 75 cu ft)	1,05	12 (U-1809) and
			Dust Filter AS12
G-0267	Patterson-Kelly Co. Blender	1957	Dust Collector
2	(Blender #4 30 cu ft)	-2-,	10 (U-1807) and
			Dust Filter AS10
I .			

			Emission
<b>Emission Unit</b>		Date	Control
	Description	Constructed	Equipment
W-0252	Kinetic Dispersion Model No. 20 T Mill (Kady Mill)	1982	None
Q-2157	500 Gallon Coating Mix Tank	1982	None
	(Tablet Coating Mix Tank #1)		
Q-2158	500 Gallon Coating Mix Tank	1982	None
	(Tablet Coating Mix Tank #2)		
Q-2156	500 Gallon Coating Mix Tank	1982	None
	(Tablet Coating Mix Tank #3)		
Q-2155	500 Gallon Coating Mix Tank	1975	None
	(Tablet Coating Mix Tank #4)		
Q-2722	500 Gallon Coating Mix Tank	1975	None
	(Tablet Coating Mix Tank #5)		
Q-2725	300 Gallon Coating Mix Tank	1975	None
	(Tablet Coating Mix Tank #6)		
Q-2723	300 Gallon Coating Mix Tank	1982	None
	(Tablet Coating Mix Tank #7)		
Q-2724	300 Gallon Coating Mix Tank	1982	None
	(Tablet Coating Mix Tank #8)		
Q-2151	300 Gallon Jacketed Coating	1982	None
	Mix Tank (Tablet Coating Mix		
	Tank #9)		
Q-2726	300 Gallon Jacketed Coating	1975	None
	Mix Tank (Tablet Coating Mix		
	Tank #10)		
Q-2149	300 Gallon Jacketed Coating	1975	None
	Mix Tank (Tablet Coating Mix		
	Tank #11)		
Q-2150	300 Gallon Jacketed Coating	1982	None
	Mix Tank (Tablet Coating Mix		
0.4.7.4	Tank #12)	4005	
Q-2576	Four Corp. 300 Gallon	1985	None
	Jacketed Coating Mix Tank		
	(Mix Tank T-25)	4005	
Q-2577	Four Corp. 300 Gallon	1985	None
	Jacketed Coating Mix Tank		
0.6.7.0	(Mix Tank T-26)	1000	
Q-2598	Northland Stainless Inc. 150	1989	None
	Gallon Jacketed Coating Mix		
	Tank (Mix Tank T-28)		

			Emission
Emission Unit		Date	Control
Zimssion om	Description	Constructed	Equipment
D-1351	Spinning Disc Granule	1994	Dust Collector
D 1331	Manufacturing and Coater	1991	19
	(Spinning Disc)		1,
169C	Weigh/Staging Room 169C	1998	Dust Collector
10,0	Weight Stugging 100th 1070	1,7,0	24 (LC940515)
SSME	Semi-Solid Mfg. Encapsulator	1995	None
SSIVE	(Semi-Solid Capsule Fill)	1770	1,0116
LC936004	Collette Model No. Gral 300	1998	Dust Collector
EC/30001	Liter (300 L Gral 4 (Clinical))	1770	24 (LC940515)
LC935370	GLB Glatt Air Tech. Model	1998	Internal Filters
LC/33370	No. GPCG-60 Fluid Bed Dryer	1770	internal inters
	4 (Clinical)		
LC940173	Sweco Mill (Sweco (Clinical))	1998	Dust Collector
LC940173	Sweed Willi (Sweed (Clinical))	1996	24 (LC940515)
LC928144	Particle Coater (Particle Coater	1998	None None
LC)20144	(Clinical))	1770	TVOILC
P-0204,	Stokes Tri-Pac, Manesty	1983	Dust Collectors
P-0259,	Models BB3B and Rotapress	1703	7B and 7C
P-0301,	Tablet Compressors (Tablet		/B and /C
P-0316,	Compressing Booth 1)		
P-0315	Compressing Boom 1)		
S-4176	Bosch Encapsulator (Tablet	Unknown	Dust Collectors
	Compressing Booth 2)	00 11	7B and 7C
LC982816	Elisabeth Hata Press (Tablet	2001	Dust Collector 7-
	Compressing Booth 3)		3
LC980670	Fette Model #2090 Tablet	2001	Dust Collector 7-
20,000,0	Compressor (Tablet	2001	4
	Compressing Booth 4)		
P-0550	Fette Model #2090 Tablet	1985	Dust Collector 7-
	Compressor (Tablet	1300	5
	Compressing Booth 5)		
P-0374	Fette Model #2000 Tablet	1991	Dust Collector 7-
	Compressor (Tablet	-,, -	6
	Compressing Booth 6)		
LC949481	Fette Model #1200 Tablet	1998	Dust Collectors
	Compressor (Tablet		7B and 7C
	Compressing Booth 7)		
LC803695	IMA Encapsulator (Tablet	Unknown	Dust Collectors
	Compressing Booth 8)		7B and 7C
S-4128	Capsule Encapsulator (Tablet	Unknown	Dust Collectors
.= 15			
	Compressing Booth 9)		7B and 7C

Emission Unit  Description  Date Constructed Constructed Equipment  Line 8  AP16A Filling Line 8  Dust Collector LC-907329  Portable Equipment Granulators, and Oscillators  LC907238  Thomas Engineering Model No. 48 Tablet Coater (Accela Cota #1)  Cota #1)  Dust Collector #1, Thermal Oxidizer #1, and Thermal Oxidizer #2  Dust Collector #1, Thermal Oxidizer #1, and Thermal Oxidizer #1, and Thermal Oxidizer #2  S-2661  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142  GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater) (Particle Coater)  Oxidizer #1  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2
Line 8 AP16A Filling Line 8 2002 Torit Dust Collector LC-907329  Portable Equipment Granulators, and Oscillators  LC907238 Thomas Engineering Model No. 48 Tablet Coater (Accela Cota #1)  LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  (Particle Coater)  Collector #1, Thomas Collector #3 and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2
Line 8 AP16A Filling Line 8 2002 Torit Dust Collector LC-907329  Portable Equipment Granulators, and Oscillators  LC907238 Thomas Engineering Model No. 48 Tablet Coater (Accela Cota #1)  LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  (Particle Coater)  Collector #1, Thomas Collector #3 and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2
Portable Portable Tanks, Mills, Sifter, Granulators, and Oscillators  LC907238 Thomas Engineering Model No. 48 Tablet Coater (Accela Cota #1)  LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  (Particle Coater)  Collector LC-907329  None  None  None  None  1973 Dust Collector  #1, Thermal Oxidizer #1, and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2
Portable Equipment Granulators, and Oscillators  LC907238 Thomas Engineering Model No. 48 Tablet Coater (Accela Cota #1)  LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  [Portable Tanks, Mills, Sifter, Granulators, and Oscillators  #1, Thermal Oxidizer #1, and Thermal Oxidizer #1, and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2
Equipment Granulators, and Oscillators  LC907238 Thomas Engineering Model No. 48 Tablet Coater (Accela Cota #1)  LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  (Particle Coater)  Cota #1  Dust Collector #1, Thermal Oxidizer #1, and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2
LC907238 Thomas Engineering Model No. 48 Tablet Coater (Accela Cota #1)  LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater) (Particle Coater)  Sound Thermal Oxidizer #1, and Thermal Oxidizer #1, and Thermal Oxidizer #1, and Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
No. 48 Tablet Coater (Accela Cota #1)  Cota #1)  LC907239  Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142  GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater) (Particle Coater)  Coxidizer #1, and Thermal Oxidizer #1, Thermal Oxidizer #1, Thermal Oxidizer #2  Dust Collector #3 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
Cota #1)  Cota #1)  Cota #1)  Coxidizer #1, and Thermal Oxidizer #2  LC907239  Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142  GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  (Particle Coater)  Cxidizer #1, and Thermal Oxidizer #1, Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Thermal
LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater) (Particle Coater)  Thermal  Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Coxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
LC907239 Thomas Engineering Model No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
No. 48-M111 Tablet Coater (Accela Cota #2)  S-2661  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142  GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  (Accela Cota #4)  Thermal  #1, Thermal Oxidizer #1, and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
(Accela Cota #2)  S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Oxidizer #1, and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
S-2661 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #3)  S-2660 Thomas Engineering Model No. 60-111 Tablet Coater No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #4 and Thermal
No. 60-111 Tablet Coater (Accela Cota #3)  S-2660  Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142  GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Was and Thermal Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #U-2230 and Thermal
S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  (Accela Cota #3)  Oxidizer #2  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #U-2230 and Thermal
S-2660 Thomas Engineering Model No. 60-111 Tablet Coater (Accela Cota #4)  S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Dust Collector #4 and Thermal Oxidizer #2  Dust Collector #U-2230 and Thermal
No. 60-111 Tablet Coater (Accela Cota #4)  S-3142  GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  H44 and Thermal Oxidizer #2  Dust Collector #U-2230 and Thermal
S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Oxidizer #2  Dust Collector #U-2230 and Thermal
S-3142 GLB Glatt Air Tech. Model No. GPCG-300 Particle Coater (Particle Coater)  Dust Collector #U-2230 and Thermal
No. GPCG-300 Particle Coater (Particle Coater) #U-2230 and Thermal
(Particle Coater) Thermal
` '
Oxidizer #1
Chicago III
TA-5 7,000 Gallon Ethanol Storage 1985 bottom fill lines,
Tank (Tank TA-5) conservation
vent
TA-6 7,000 Gallon Ethanol Storage 1985 bottom fill lines,
Tank (Tank TA-6) conservation
vent
4AP Lasker Boiler and Engineering 1964 Fly Ash
Corporation Class J-28.75 Collector U-720
Coal/Natural Gas Fired Boiler
(Boiler 4AP, 83 mmBtu/hr,
coal; 60 mmBtu/hr, natural
gas)

			Emission
Emission Unit		Date	Control
	Description	Constructed	Equipment
5AP	Lasker Boiler and Engineering	1964	Fly Ash
	Corporation Class J-28.75		Collector U-722
	Coal/Natural Gas Fired Boiler		
	(Boiler 5AP, 83 mmBtu/hr,		
	coal; 60 mmBtu/hr, natural		
	gas)		
6AP	Nebraska Boiler Co., Inc.	1981	None
	Model NS-E-69 Fuel		
	Oil/Natural Gas Fired Boiler		
	(Boiler 6AP, 89 mmBtu/hr,		
	fuel oil; 98.4 mmBtu/hr,		
	natural gas)		
7AP	Nebraska Boiler Co., Inc.	October 1993	Low NO <sub>x</sub>
	Model NS-F-65 Fuel		Burners
	Oil/Natural Gas Fired Boiler		
	(Boiler 7AP, 92.9 mmBtu/hr,		
	fuel oil; 97.1 mmBtu/hr,		
D 2	natural gas)	G 1	I NO
R-2	Nebraska Boiler Model No.	September	Low NO <sub>x</sub>
	NOS.2A.67 Natural Gas Fired	1998	Burners
	Boiler (R-2 Rental Boiler, 88		
C13A	mmBtu/hr) York International Model	A	L avv NO Daymaan
CI3A	YPC-FN-20G-46-C-s Natural	April 1996	Low NO <sub>x</sub> Burner
	Gas-Fired Chiller (Chiller		
	13A, 13.738 mmBtu/hr)		
C14	Caterpillar, Inc. Model 3608SI	September	Chiller 14
	Natural Gas-Fired Chiller	1992	Engine Catalytic
	(Chiller 14, 19 mmBtu/hr)	1772	Converter
AP50-2	Weil McLain Model BG-988-	October 2001	None
111 30 2	WF-WB-MO-CSDI-UL	200001 2001	1,0110
	Natural Gas Fired Boiler		
	(Boiler AP50-2, 3 mmBtu/hr)		
AP50-1	Weil McLain Model PG-988-	August 1995	None
	WF-PF-LO-UL Natural Gas		
	Fired Boiler (Boiler AP50-1,		
	2.71 mmBtu/hr)		
AP52-1	Burnham Model 3P-350-50LB	July 1981	None
	Natural Gas Fired Boiler	-	
	(Boiler AP52-1, 14.6		
	mmBtu/hr)		

			Emission
Emission Unit		Date	Control
	Description	Constructed	Equipment
AP52-2	Burnham Model 3P-350-50LB	June 1987	None
	Natural Gas Fired Boiler		
	(Boiler AP52-2, 14.6		
	mmBtu/hr)		
AP52-3	Burnham Model 3P-350-50LB	June 1987	None
	Natural Gas Fired Boiler		
	(Boiler AP52-3, 14.6		
	mmBtu/hr)		
AP52-6	Hurst Boiler Model No. S4-X-	May 1997	None
	350-150 Natural Gas Fired		
	Boiler (Boiler AP52-6, 14.7		
	mmBtu/hr)		
AP-5	Cummins Model DQKC	May 2003	None
	Diesel-Fired Generator		
	(Emergency Diesel Generator		
	AP-5, 2000 kW)		
AP-7	Cummins Model DQKC	May 2003	None
	Diesel-Fired Generator		
	(Emergency Diesel Generator		
	AP-7, 2000 kW)		
K-14	Cummins Model DQKC	April 2003	None
	Diesel-Fired Generator		
	(Emergency Diesel Generator		
	K-14, 2000 kW)		
AP14C	Caterpillar Model #3516/E275	June 1985	None
	Diesel-Fired Generator		
	(Emergency Diesel Generator		
	AP14C, 1500 kW)		
K2-1	Cleaver Brooks Model LR-	Oct. 1982	None
	614-35 Natural Gas Fired		
	Boiler (Boiler K2-1, 15		
	mmBtu/hr)		
K2-2	Cleaver Brooks Model LR-	Oct. 1982	None
	614-35 Natural Gas Fired		
	Boiler (Boiler K2-2, 15		
	mmBtu/hr)		
K8-1	Clayton Model EG-2041	1992	None
	Natural Gas Fired Boiler		
	(Boiler K8-1, 8.4 mmBtu/hr)		

			Emission
Emission Unit		Date	Control
	Description	Constructed	Equipment
Mobile	Cummins Model DQKC	Nov. 2004	None
Generator 1	Diesel-Fired Generator (2000		
	kW)		
Mobile	Cummins Model DQKC	Nov. 2004	None
Generator 2	Diesel-Fired Generator (2000		
	kW)		
Fugitive PM	Traffic Areas, Parking Lots,	-	None
Emissions	and Coal Piles		
Fugitive VOM	Equipment Leaks and Cleanup	-	None
Emissions	Operations		

#### III. EMISSIONS INFORMATION

The proposed permit limits the source wide maximum annual emissions from significant emission units at the source. Insignificant activities at this source are not accounted for in the source-wide limit. Further unit specific emission unit limitations are found within Sections 5 and 7 of the proposed permit.

For purposes of fees, the source is allowed the following emissions:

Pollutant	Tons/Year
Volatile Organic Material (VOM)	149.87
Sulfur Dioxide (SO <sub>2</sub> )	1,021.61
Particulate Matter (PM)	214.19
Nitrogen Oxides (NO <sub>x</sub> )	598.71
Hazardous Air pollutant (HAP), not included in VOM or PM	75.63
TOTAL	2,060.01

This proposed permit contains terms and conditions that address the applicability, and, if determined applicable, substantive requirements of Title I of the Clean Air Act (CAA) and regulations promulgated thereunder, including 40 CFR 52.21, Prevention of Significant Deterioration (PSD) and 35 IAC Part 203, Major Stationary Sources Construction and Modification. Any such terms and conditions are identified within the proposed permit by T1, T1R, or T1N. Any conditions established in a construction permit [T1] pursuant to Title I and not revised or deleted in this proposed permit, remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them. Where the source has requested that the Illinois EPA establish new [T1N] or revise [T1R] such conditions in a Title I permit, those conditions are consistent with the information provided in the Title V application and will remain in effect pursuant to Title I provisions until such time that the Illinois EPA revises or deletes them.

This proposed permit does establish newly revised [T1R] requirements.

#### IV. EMISSIONS CONTROL PROGRAMS INFORMATION

#### a. Emissions Reduction Market System (ERMS)

Because this source is located in the Chicago ozone non-attainment area and emits volatile organic material (VOM), the proposed permit includes conditions to implement the Emissions Reduction Market System (ERMS). The ERMS is a market-based program designed to reduce VOM emissions from stationary sources to contribute to reasonable further progress toward attainment, as further described in Section 6.0 of the proposed permit. The proposed permit contains the Illinois EPA's determination of the source's baseline emissions and allotment of trading units under the ERMS, and identifies units not subject to further reductions.

## V. COMPLIANCE ASSURANCE MONITORING (CAM) PLAN INFORMATION

The Compliance Assurance Monitoring (CAM) plan is a program for pollutant-specific emission units which use an add-on control device to achieve compliance with an emission limitation or standard, has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than major source threshold levels, and is not specifically exempt by 40 CFR Part 64. Subject units and the CAM plans are identified in Attachment 3 of the proposed permit.

#### VI. OTHER PERTINENT INFORMATION

### a. Risk Management Plan (RMP)

A risk management plan (RMP) is a program required for a source affected by Chemical Accident Prevention for reducing the levels of emissions during an emergency, consistent with safe operating procedures. If the Permittee becomes subject to the RMP then the Permittee would be required to immediately implement the appropriate steps described in this plan should an emergency be declared. The Permittee then would be required to maintain and have this plan on file with the Illinois EPA.

#### b. Episode Action Plan (EAP)

An episode action plan (EAP) is a program for reducing the levels of emissions during yellow alerts, red alerts, and emergencies, consistent with safe operating

procedures. The Permittee is required to immediately implement the appropriate steps described in this plan should an air pollution alert or emergency be declared. The Permittee is required to maintain and have this plan on file with the Illinois EPA.

#### VII. COMPLIANCE INFORMATION

The source has certified compliance with all applicable rules and regulations; therefore, a compliance schedule is not required for this source.

## VIII. REQUEST FOR COMMENTS

It is the Illinois EPA's preliminary determination that this source's permit application meets the standards for issuance of a Title V permit. The Illinois EPA is therefore proposing to issue a Title V permit, subject to the conditions proposed in the draft permit.

Comments are requested by the Illinois EPA for the proposed permit. If substantial public interest is shown in this matter, the Illinois EPA will consider holding a public hearing in accordance with 35 Ill. Adm. Code Part 166.

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